نتایج اجرا روی سرور: Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHz

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH | | sim\_perm\_arr LSH | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Mshrum | 100 | <1 | 860 | <1 | 750 | <1 | 791 | 1.5 | 907 |
| 10 | Mshrum | 100 | <1 | 750 | <1 | 630 | 6 | 760 |  |  |
| 20 | Mshrum | 100 | <1 | 775 | <1 | 605 | 12 | 670 |  |  |
| 30 | Mshrum | 100 | <1 | 690 | <1 | 619 | 18 | 675 |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH | | sim\_perm\_arr LSH | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Mshrum | 200 | <1 | 5070 | <1 | 2700 | 1.3 | 3650 | 8 | 4300 |
| 10 | Mshrum | 200 | <1 | 3850 | <1 | 2750 | 13 | 3180 |  |  |
| 20 | Mshrum | 200 | <1 | 3200 | <1 | 2470 | 26 | 3090 |  |  |
| 30 | Mshrum | 200 | =1 | 2970 | <1 | 2460 | 41 | 3070 |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH | | sim\_perm\_arr LSH | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Mshrum | 300 | <1 | 9140 | <1 | 4870 | 3.5 | 10k | 26 | 8000 |
| 10 | Mshrum | 300 | <1 | 6230 | <1 | 4830 | 36 | 9.8k |  |  |
| 20 | Mshrum | 300 | 1.5 | 5760 | <1 | 4790 | 73 | 9.7k |  |  |
| 30 | Mshrum | 300 | 2 | 6060 | <1 | 4730 | 110 | 9.7k |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH | | sim\_perm\_arr LSH | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Mshrum | 1000 | =1 | 99900 | <1 | 58400 | 50 | 69k | 900 | 95.5k |
| 10 | Mshrum | 1000 | 9 | 77400 | =1 | 56600 | 517 | 67k |  |  |
| 20 | Mshrum | 1000 | 18 | 80600 | 2 | 56500 |  |  |  |  |
| 30 | Mshrum | 1000 | 25 | 73200 | 3 | 56500 |  |  |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH(30sign-10iter) | | sim\_perm\_arr LSH(1-iter) | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Mshrum | 1000 | =1 | 99900 | <1 | 58400 | 29 | 90k | 20 | 105k |
| 10 | Mshrum | 1000 | 9 | 77400 | =1 | 56600 | On Colab | | | |
| 20 | Mshrum | 1000 | 18 | 80600 | 2 | 56500 | 22 | 100k | 30 | 108k |
| 30 | Mshrum | 1000 | 25 | 73200 | 3 | 56500 |  |  |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH(30sign) | | sim\_perm\_arr LSH(1-iter) | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | string | 18000 | 2.7 | 184k | <1 | 119k |  |  |  |  |
| 10 | string | 18000 | 26 | 155k | 8 | 118k | On Colab | | | |
| 20 | string | 18000 | 50 | 154k | 15 | 119k |  |  |  |  |
| 30 | string | 18000 | 71 | 155k | 21 | 119k |  |  |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH(30sign) | | sim\_perm\_arr LSH(1-iter) | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | Cooking | 6700 | <1 | 752k | <1 | 461k |  |  |  |  |
| 10 | Cooking | 6700 | 6 | 512k | 5 | 459k | On Colab | | | |
| 20 | Cooking | 6700 | 19 | 511k | 10 | 459k | 2h\_55m | 483k | 1h\_50m | 8047k |
| 30 | Cooking | 6700 | 20 | 510k | 14 | 458k |  |  |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH(30sign) | | sim\_perm\_arr LSH(1-iter) | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | dawn | 2100 | <1 | 102k | <1 | 89k |  |  |  |  |
| 10 | dawn | 2100 | 2.2 | 98k | 1.8 | 88k | On Colab | | | |
| 20 | dawn | 2100 | 4.7 | 96k | 3.5 | 88k | 9m | 97k | 4m | 721k |
| 30 | dawn | 2100 | 7 | 98k | 5 | 88k |  |  |  |  |

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| تعداد اجرا | دیتاست | تعداد راس‌ها | Pivot | | Vote | | regular\_LSH | | sim\_perm\_arr LSH | |
|  |  |  | Time | violations | Time | violations | Time | violations | Time | violations |
| 1 | dblp | 73000 | 12 | 2238k | 11 | 1572k |  |  |  |  |
| 10 | dblp | 73000 | 110 | 2210k | 87 | 1573k | On Colab | | | |
| 20 | dblp | 73000 | 218 | 2206k | 180 | 1571k |  |  |  |  |
| 30 | dblp | 73000 | 320 | 2209k | 270 | 1572k |  |  |  |  |